## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions, and listings, of claims in the application:

l	1.	(Original) A method of directing a computer network for booting using an		
2	embedded operating system (OS) based computer, the method comprising:			
3		listening with an embedded OS based computer to PXE requests from a plurality		
4	of PX	E enabled target servers of a computer network; and		
5		providing from the embedded OS based computer to one of the plurality of PXE		
5	enabled target servers a netboot program and address information of a boot server from			
7	the en	nbedded OS based computer responsive to a PXE request from one of the PXE		
3	enabled target servers.			
1	2.	(Original) The method as in claim 1, wherein the computer network comprises a		
2	plurality of subnetworks of PXE enabled target servers.			
1	3.	(Currently Amended) The method as in claim 2, wherein the embedded OS based		
2	computer list	ens to one of the <del>subnetwork</del> <u>subnetworks</u> .		
	<i>A</i>	(Commenter Amended) The method as in claim 2 wherein the embedded OS based		
1	4.	(Currently Amended) The method as in claim 3, wherein the embedded OS based		
2	computer list	ens to one of the subnetwork subnetworks by wireless communication.		
1	5.	(Original) The method as in claim 1, wherein the embedded OS is Windows CE		
2	operating sys			
_	operaning eye			
1	6.	(Original) The method as in claim 1, wherein the plurality of PXE enabled target		
2	servers are pa	art of a subnetwork of the computer network.		
1	7.	(Original) The method as in claim 1, wherein the listening step is performed		
2	through a TCP/IP stack.			

- (Original) The method as in claim 1, wherein the address information of the boot 8. 1 2 server comprises an IP address. (Currently Amended) The method as in claim 1, further comprising transferring a 9. 1 boot image from the boot server responsive to the netboot program executing on the one of the 2 PXE enabled target server servers. 3 (Original) The method as in claim 9, wherein the boot image is provided through 10. 1 2 a router. 11. (Original) The method as in claim 9, wherein the boot image is provided by 1 2 wireless communication. 1 12. (Original) The method as in claim 9, wherein the boot image comprises responses 2 to preboot execution environment queries. (Original) The method as in claim 9, wherein the boot image further comprises a 1 13. 2 script specific to the requesting target server. (Original) The method as in claim 9, wherein the boot image comprises code to 1 14. 2 install at least one operating system. 1 15. (Original) The method as in claim 9, wherein the boot image comprises 2 application software. (Original) The method as in claim 9, wherein the netboot program is executed out 16. 1 2 of a read-only memory.
- 1 17. (Original) The method as in claim 9, wherein the boot image is transferred using 2 a trivial file transfer protocol.

1	18.	(Currently Amended) The method as in claim 9, wherein the one of the PXE	
2	enabled server target servers is booted by executing the boot image.		
1	19.	(Currently Amended) The method as in claim 1, further comprising displaying	
2	address infor	mation for the plurality of PXE enabled target servers.	
1	20.	(Currently Amended) The method as in claim 1, further comprising displaying a	
2	plurality of boot images for the plurality of PXE enabled target servers.		
1	21.	(Currently Amended) The method as in claim 1, further comprising displaying	
2	PXE requests	s for the plurality of PXE enabled target servers.	
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1	22.	(Currently Amended) An embedded OS based computer for network booting	
2	under [[PXE]	]] <u>preboot execution environment (PXE)</u> control, the computer comprising:	
3		a network interface controller (NIC);	
4		an embedded [[OS]] operating system (OS) to control the NIC;	
5		a microcontroller processor coupled to the NIC;	
6		a microcontroller processor executable preboot execution environment PXE	
7	routing software, which is adapted to perform the microcontroller processor executable		
8	steps of:		
9		listening with an embedded OS based computer to PXE requests from a	
10		plurality of PXE enabled target servers of a computer network; and	
11		providing from the embedded OS based computer to one of the plurality of	
12		PXE enabled target servers a netboot program and address information of a boot	
13		server from the embedded OS based computer responsive separate from the	
14		embedded OS based computer, in response to a PXE request from the one of the	
15		PXE enabled target servers.	

23. (Original) The embedded OS based computer as in claim 22, further comprising a 1 2 display coupled to the processor. 24. (Original) The embedded OS based computer as in claim 22, further comprising 1 2 an input device coupled to the processor. (Original) The embedded OS based computer as in claim 22, further comprising a 1 25. 2 memory coupled to the processor. (Original) The embedded OS based computer as in claim 25, wherein the 26. 1 2 memory further comprises: 3 a web browser; 4 PXE service applications; 5 a TFTP application; a Net Boot Program (NBP); and 6 7 a boot image. 1 27. (Original) The embedded OS based computer as in claim 25, wherein the 2 embedded OS based computer is configured through the web browser. 1 28. (Original) The embedded OS based computer as in claim 25, wherein the 2 embedded OS based computer is configured directly. 1 29. - 38. (Cancelled) (New) The method of claim 1, wherein providing the netboot program from the 1 39. embedded OS based computer comprises providing the netboot program from the embedded OS 2 based computer that is separate from the boot server. 3

(New) The method of claim 39, wherein providing the netboot program to the 1 40. one of the PXE enabled target servers comprises providing the netboot program that when 2 executed causes the one of the PXE enabled target servers to issue a request to the boot server for 3 a boot image to download to the one of the PXE enabled target servers. 4 1 41. (New) The method of claim 40, further comprising: 2 receiving, by the embedded OS based computer, the request to the boot server; 3 and in response to the request, send, by the embedded OS based computer, a Trivial 4 File Transfer Protocol (TFTP) request to the boot server for the boot image. 5 42. (New) The embedded OS based computer of claim 22, wherein the netboot 1 2 program when executed causes the one of the PXE enabled target servers to issue a request to the 3 boot server for a boot image. (New) The embedded OS based computer of claim 42, wherein the boot image 1 43. 2 comprises a script that includes code to install an operating system on the one of the PXE 3 enabled target servers. (New) The embedded OS based computer of claim 22, comprising a handheld 1 44. 2 computer. (New) The embedded OS based computer of claim 22, wherein the embedded OS 1 45. 2 comprises a Windows CE OS. (New) The embedded OS based computer of claim 22, further comprising a 1 46. 2 display to display address information for the plurality of PXE enabled target servers.

1	47.	(New) An article comprising a storage containing software that when executed		
2	causes a first computer to:			
3		receive a request from a target server for remote booting of the target server; and		
4		in response to the request, send a program and address information of a boot		
5	server	to the target server, wherein the boot server is separate from the first computer,		
6		wherein the program when executed causes the target server to issue a boot server		
7	reques	request to the boot server for a boot image to download to the target server.		
1	48.	(New) The article of claim 47, wherein the software when executed causes the		
2	first computer to further:			
3		receive the boot server request; and		
4		in response to the boot server request, issue a Trivial File Transfer Protocol		
5	(TFTP	) request to the boot server for the boot image.		
1	49.	(New) The article of claim 47, wherein the first computer comprises an		
2	embedded operating system (OS) based computer containing an embedded OS.			
1	50.	(New) The article of claim 49, wherein the first computer comprises a handheld		
2	computer.			
1	51.	(New) The article of claim 47, wherein the first computer receives the request		
2	from the target server by wireless communications.			
1	52.	(New) The article of claim 47, wherein the received request from the target		
2	server compris	ses a preboot execution environment (PXE) request, the target server being a PXE		
3	enabled target	server.		

1	53.	(New) A computer comprising:
2		a processor;
3		an embedded operating system (OS) executable on the processor;
4		software executable on the processor to:
5		receive a request from a target server; and
6		in response to the request, send information to the target server to direct
7		the target server to a boot server separate from the computer for downloading a
8		boot image from the boot server to the target server for remote booting of the
9		target server,
10		wherein the computer is a reduced-capability computer having less
11		capability than a server computer.
1	54.	(New) The computer of claim 53, wherein the embedded OS comprises a
2	Windows CE	E OS.
1	55.	(New) The computer of claim 53, further comprising a wireless interface to
2	receive the request wirelessly.	
1	56.	(New) The computer of claim 53, wherein the received request comprises a
2	preboot exec	ution environment (PXE) request.
1	57.	(New) The computer of claim 53, further comprising a display to display address
2	information for plural target servers, and to list boot images for the plural target servers,	
3		the software executable on the processor to:
4		listen to requests from the plural target servers for remote booting of the
5		target servers.
1	58.	(New) The computer of claim 53, wherein the information sent to the target
2	server compr	rises a netboot program and an address of the boot server.